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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/711,224	09/02/2004	Paul A. Hyde	BUR920030186US1	5223
44152 7590 05/07/2007 GREENBLUM & BERNSTEIN, P.L.C.			EXAMINER	
1950 ROLANI	D CLARK DRIVE		CHARIOUI. MOHAMED	
RESTON, VA 20191			ART UNIT	PAPER NUMBER
			2857	
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			NOTIFICATION DATE	DELIVERY MODE
			05/07/2007	ELECTRONIC

# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

gbpatent@gbpatent.com pto@gbpatent.com

		Application No.	Applicant(s)			
Office Action Summary		10/711,224	HYDE ET AL.			
		Examiner	Art Unit			
		Mohamed Charioui	2857			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
2a) <u></u> 	Responsive to communication(s) filed on <u>26 Fe</u> This action is <b>FINAL</b> . 2b) This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final.  nce except for formal matters, pro				
Dispositi	on of Claims					
5)⊠ 6)⊠ 7)□ 8)□ <b>Applicati</b> 9)□	Claim(s) 1-35 and 37-59 is/are pending in the address of the above claim(s) is/are withdraw Claim(s) 1-35,37-46 and 54-57 is/are allowed. Claim(s) 47-53,58 and 59 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or on Papers  The specification is objected to by the Examiner The drawing(s) filed on 02 September 2004 is/address that any objection to the description is the description of the de	vn from consideration. r election requirement. r. are: a)⊠ accepted or b)□ object	•			
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority u	ınder 35 U.S.C. § 119					
a)[	Acknowledgment is made of a claim for foreign  All b) Some * c) None of:  1. Certified copies of the priority documents  2. Certified copies of the priority documents  3. Copies of the certified copies of the priorical application from the International Bureausee the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been receive (PCT Rule 17.2(a)).	on No d in this National Stage			
Attachment(s)  1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)						
3) 🔲 Inform	e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	te			

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1. Applicant cancelled claim 36.

## Claim Rejections - 35 USC § 101

2. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 53 and 59 are rejected under 35 USC § 101 because they are directed to non-statutory subject matter.

The descriptions or expressions of the programs are not physical "things." They are neither computer components nor statutory processes, as they are not "acts." Being performed. Such claimed computer programs do not define any structural and functional interrelationships between the computer program and other claimed elements of a computer, which permit the computer program's functionality to be realized. In contrast, a claimed computer-readable medium encoded with a computer program is a computer element which defines structural and functional interrelationships between the computer program and the rest of the computer which permit the computer program's functionality to be realized, and is thus statutory. Accordingly, it is important to distinguish claims that define descriptive material per se from claims that define statutory inventions.

# Claim Rejections - 35 USC § 112

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

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Claims 47-52 and 58 are rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential elements, such omission amounting to a gap between the elements. See MPEP § 2172.01. The omitted elements are: how is the temperature of an active region of the semiconductor is being determined?

#### Allowable Subject Matter

4. Claims 1-35, 37-46 and 54-57 are allowed.

The following is a statement of reasons for the indication of allowable subject matter:

Regarding claims 1-24 and 54, none of the prior art of record teaches or suggests measuring a change in at least one electrical characteristic of the first sensing device caused by the heat generated at the first heating device and calculating a temperature of the first heating device using the measured change in the at least one electrical characteristic, in combination with the rest of the claim limitations.

Regarding claims 25-33 and 55, none of the prior art of record teaches or suggests incrementally measuring a change in the at least one electrical characteristic of the measurement transistor caused by the heat generated at the heating transistor and calculating the temperature of the heating transistor using the measured change in the at least one electrical characteristic, in combination with the rest of the claim limitations.

Regarding claims 34, 35, 37, 38 and 56, none of the prior art of record teaches or suggests a common source contact being arranged on the silicon island and leading

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to the source of both the transistor configured to generate heat and the transistor

configured to sense temperature, in combination with the rest of the claim limitations.

Regarding claims 39-46 and 57, none of the prior art of record teaches or

suggests at least one sensing field effect transistor arranged within the at least one

silicon island corresponding to each heating field effect transistor of the at least one

heating field effect transistor, wherein each sensing field effect transistor is arranged a

prescribed distance from its corresponding heating field effect transistor and each

sensing field effect transistor is configurable to sense a temperature; and means to

calculate a temperature of the each heating field effect transistor using a measured

change in at least one electrical characteristic of the each sensing field effect transistor

caused by the heat generated at the each heating field effect transistor, in combination

with the rest of the claim limitations.

Response to Arguments

5. Applicant's arguments with respect to claims 1-35 and 37-59 have been

considered but are most in view of the new ground(s) of rejection.

Contact information

6. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Mohamed Charioui whose telephone number is (571)

272-2213. The examiner can normally be reached Monday through Friday, from 9 am

to 6 pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, John E. Barlow can be reached on (571) 272-2269. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

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Business Center (EBC) at 866-217-9197 (toll-free).

Mohamed Charioui

4/23/07

BRYAN BUI PRIMARY EXAMINER

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